



SPYWOLF

Security Audit Report



Completed on
April 19, 2023

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OVERVIEW

This audit has been prepared for **ShibAnon** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

”

- SPYWOLF Team -





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ShibAnon



PROJECT DESCRIPTION

According to their litepaper:

Shibanon was created to become the first mixer on the Shibarium chain. Staying true to the core essence of decentralization, Shibanon will provide ultimate privacy to your transactions while utilizing their platform. The purpose of this unique mixer dApp executing this function, is to ensure investors on the Shibarium chain maintain their privacy with every transaction.

Release Date: Presale starts in April, 2023

Category: Crypto mixer



CONTRACT INFO

Token Name
ShibAnon

Symbol
\$Shibanon

Contract Address

0x63AE02db60BF9B40AA990599631e6453795c0cDA

Network
Ethereum

Language
Solidity

Deployment Date
Apr 18, 2023

Verified?
Yes

Total Supply
1,000,000,000

Status
Not launched

TAXES

Buy Tax
5%

Sell Tax
5%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	1000000000 \$Shibanon
Median Transfer Amount	1000000000 \$Shibanon
Average Transfer Amount	1000000000 \$Shibanon
First transfer date	2023-04-18
Last transfer date	2023-04-18
Days token transferred	1

SMART CONTRACT STATS

Calls Count	1
External calls	1
Internal calls	0
Transactions count	1
Uniq Callers	1
Days contract called	1
Last transaction time	2023-04-18 21:33:59 UTC
Created	2023-04-18 21:33:59 UTC
Create TX	0x7361d814ac838bbb276f920b3129a8decdb41cc13bfbd8cc300d37f0352b360
Creator	0xcb8436363d1d351a8a18b4435782cd60497flaa8



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

⚠ Medium Risk

Owner can turn on/off max wallet limit check.

If wallet limit check is on, max wallet limit is below liquidity pair's balances and the liquidity pair address is not excluded from max wallet, trading will fail.

```
function enableDisableWalletLimit(bool newValue) external onlyOwner {
    checkWalletLimit = newValue;
}

function setWalletLimit(uint256 newLimit) external onlyOwner {
    _walletMax = newLimit;
}

function _transfer(address sender, address recipient, uint256 amount) private returns (bool) {
    .....
    if(checkWalletLimit && !isWalletLimitExempt[recipient]) {
        require(balanceOf(recipient).add(finalAmount) <= _walletMax, "Amount Exceed From Max Wallet Limit!!");
    }
    .....
}
```

- Recommendation:
 - Ensure that liquidity pair address is always excluded from max wallet restrictions and/or transfers to liquidity pair are out of check's scope.



Informational

Owner can withdraw any tokens from the contract with exception of the native \$ShibAnon token.

When this function is present, in cases tokens sent into the contract by mistake or purposefully, contract's owner can retrieve them. Owner can withdraw BNB from the contract.

```
function rescueStuckToken(address _token, uint _amount) external onlyOwner {  
    require(_token != address(this), "Owner can't claim contract's balance of its own tokens");  
    IERC20(_token).transfer(msg.sender, _amount);  
}  
  
function rescueFunds() external onlyOwner {  
    (bool os,) = payable(msg.sender).call{value: address(this).balance}("");  
    require(os);  
}
```

Owner can exclude address from fees, transaction limit and max wallet limit. When address is excluded from such restrictions, the user can transfer and receive the whole amount of the bought, sold and/or transferred tokens.

```
function setIsTxLimitExempt(address holder, bool exempt) external onlyOwner {  
    isTxLimitExempt[holder] = exempt;  
}  
  
function setIsExcludedFromFee(address account, bool newValue) public onlyOwner {  
    isExcludedFromFee[account] = newValue;  
}  
  
function setIsWalletLimitExempt(address holder, bool exempt) external onlyOwner {  
    isWalletLimitExempt[holder] = exempt;  
}
```



Informational

Owner can set max transaction limit but cannot lower it than 0.1% of total supply.

```
function setMaxTxAmount(uint256 maxTxAmount) external onlyOwner() {  
    require(maxTxAmount >= _totalSupply.mul(1).div(1000),  
        "Cannot set max TX amount lower than 0,1% of total supply");  
    _maxTxAmount = maxTxAmount;  
}
```

Owner can set buy/sell taxes up to 12.5%.

Combined buy+sell = 25%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make. Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
uint256 public feeUnits = 100;  
  
function setBuyTaxes(uint _Liquidity, uint _Marketing , uint _Developer) public onlyOwner {  
    _buyLiquidityFee = _Liquidity;  
    _buyMarketingFee = _Marketing;  
    _buyDeveloperFee = _Developer;  
    _totalTaxIfBuying = _buyLiquidityFee.add(_buyMarketingFee).add(_buyDeveloperFee);  
    require(_totalTaxIfBuying <= (feeUnits/8), "Buy fees must be 12.5% or less");  
}  
  
function setSellTaxes(uint _Liquidity, uint _Marketing , uint _Developer) public onlyOwner {  
    _sellLiquidityFee = _Liquidity;  
    _sellMarketingFee = _Marketing;  
    _sellDeveloperFee = _Developer;  
    _totalTaxIfSelling = _sellLiquidityFee.add(_sellMarketingFee).add(_sellDeveloperFee);  
    require(_totalTaxIfSelling <= (feeUnits/8), "Sell fees must be 12.5% or less");  
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

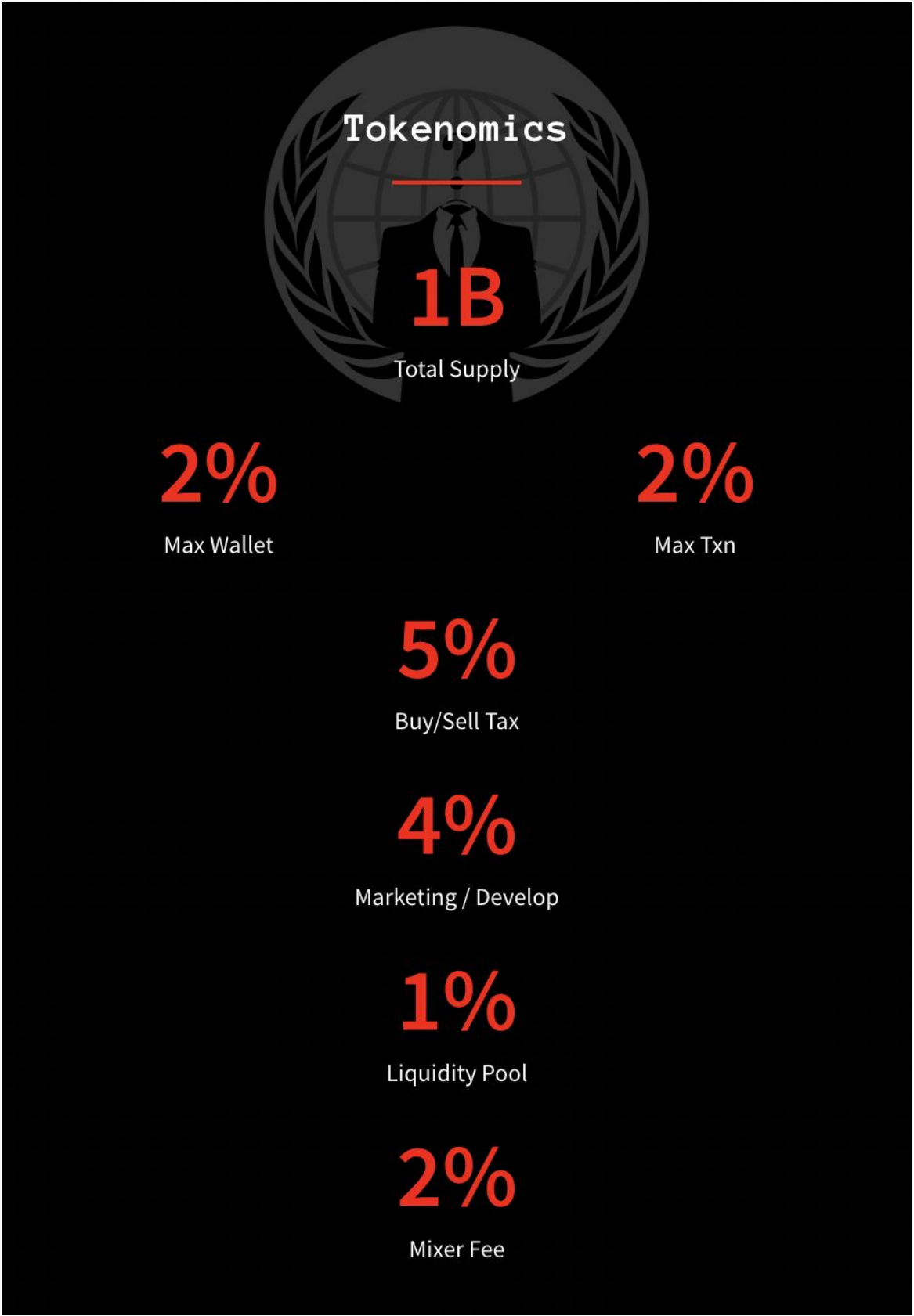
ShibAnon

GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner can set max transaction limit but cannot lower it than 0.1% of total supply.
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



The following tokenomics were taken from their official website.



TOKENOMICS



WEBSITE

Website URL

<https://www.shibanon.com/>

Domain Registry

<https://www.godaddy.com>

Domain Expiration

Expires on 2024-03-22

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design with appropriate color scheme and graphics.

Content

The information helps new investors understand what the product does right away.

No grammar mistakes found.

Whitepaper

Well written, explanatory.

Roadmap

Yes, goals set without time frames.

Mobile-friendly?

Yes



shibanon.com

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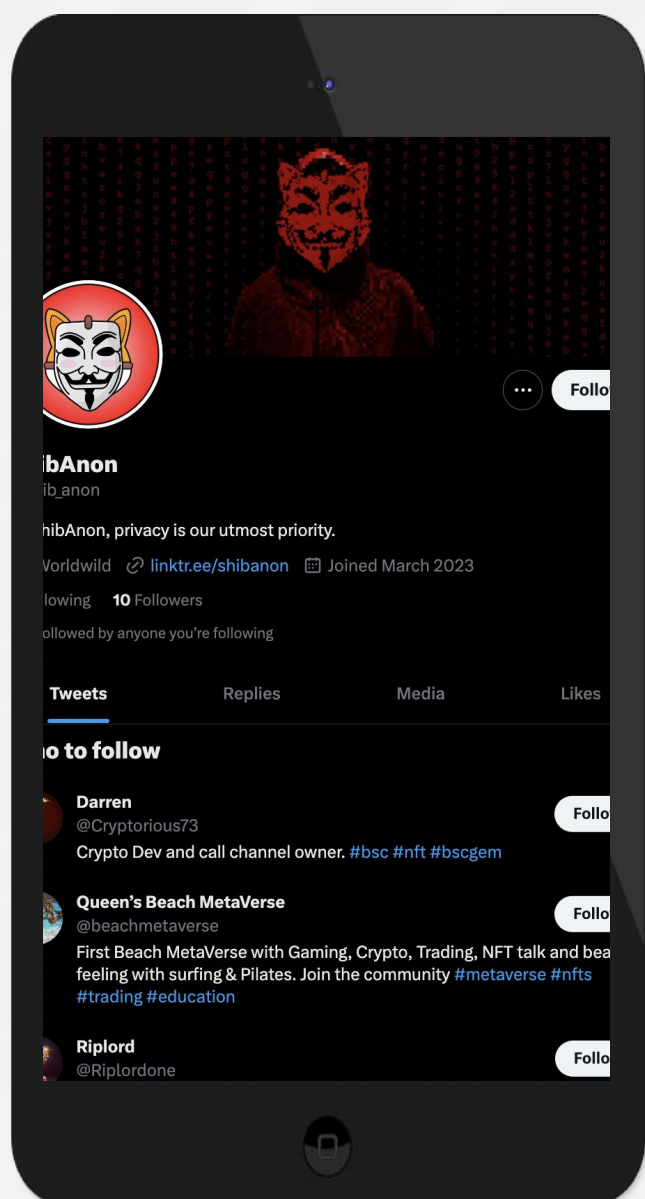


SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS

Project's social media
pages are new not active



Twitter

@shib_anon

- 10 followers
- No tweets



Discord

- Not available



Telegram

@ShibAnonPortal

- 20 subscribers



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.